

WRITING ELEMENT WITH NO RETURN PATHABSTRACT OF THE DISCLOSURE

A writing element includes a writing pole, a conducting coil and
5 an insulating material. The writing pole includes a pole tip and extends
therefrom to a back gap region. The conducting coil includes coil
segments positioned adjacent and transverse to the writing pole. The coil
segments are adapted to produce magnetic signals that orient
magnetization vectors at the pole tip of the writing pole in a desired
10 direction. The insulating material is formed between the writing pole
and the coil segments. Magnetic signals do not conduct to the back gap
region through a return pole element.